

## SEQUENCE LISTING

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<120> METHODS AND MATERIALS RELATING TO METALLOCARBOXYPEPTIDASE-LIKE POLYPEPTIDES AND POLYNUCLEOTIDES

<130> HYS-28

<140> NOT YET ASSIGNED

<141> 2000-09-29

<150> US 09/560,875

<151> 2000-04-27

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<151> 2000-02-03

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<170> PatentIn version 3.0

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gaattcacgc cagagaatgg attgctcctg ctttttgcca atggttcgtc aaagaaattc      180
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## Hys-28

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 Met Lys Pro Leu Leu Glu Thr  
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ctt tat ctt ttg ggg atg ctg gtt cct gga ggg ctg gga tat gat aga 162  
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 Trp Ser Leu Glu Thr Tyr Ser Tyr Asn Ile Tyr His Pro Met Gly Glu  
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atc tat gag tgg atg aga gag atc agt gag aag tac aag gaa gtg gtg 306  
 Ile Tyr Glu Trp Met Arg Glu Ile Ser Glu Lys Tyr Lys Glu Val Val  
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Hys-28

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Gln Asp Gln Thr Phe Cys Gly Thr Gly Pro Val Ser Glu Pro Glu Thr	
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Lys Ala Val Ala Ser Phe Ile Glu Ser Lys Lys Asp Asp Ile Leu Cys	
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Phe Leu Thr Met His Ser Tyr Gly Gln Leu Ile Leu Thr Pro Tyr Gly	
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Tyr Thr Lys Asn Lys Ser Ser Asn His Pro Glu Met Ile Gln Val Gly	
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Pro Thr Cys Glu Glu Thr Met Glu Ala Val Leu Ser Val Leu Asp Asp	
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Ala Thr Met Leu Leu Gly Leu Leu Val Ser Cys Met Ser Leu Leu	
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Gly Gly Leu Gly Tyr Asp Arg Ser Leu Ala Gln His Arg Gln Glu Ile  
 20 25 30

# Hys-28

Val Asp Lys Ser Val Ser Pro Trp Ser Leu Glu Thr Tyr Ser Tyr Asn  
35 40 45

Ile Tyr His Pro Met Gly Glu Ile Tyr Glu Trp Met Arg Glu Ile Ser  
50 55 60

Glu Lys Tyr Lys Glu Val Val Thr Gln His Phe Leu Gly Val Thr Tyr  
65 70 75 80

Glu Thr His Pro Ile Tyr Tyr Leu Lys Ile Ser Gln Pro Ser Gly Asn  
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Pro Lys Lys Ile Ile Trp Met Asp Cys Gly Ile His Ala Arg Glu Trp  
100 105 110

Ile Ala Pro Ala Phe Cys Gln Trp Phe Val Lys Glu Ile Leu Gln Asn  
115 120 125

His Lys Asp Asn Ser Arg Ile Arg Lys Leu Leu Arg Asn Leu Asp Phe  
130 135 140

Tyr Val Leu Pro Val Leu Asn Ile Asp Gly Tyr Ile Tyr Thr Trp Thr  
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Thr Asp Arg Leu Trp Arg Lys Ser Arg Ser Pro His Asn Asn Gly Thr  
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Cys Phe Gly Thr Asp Leu Asn Arg Asn Phe Asn Ala Ser Trp Cys Ser  
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Ile Gly Ala Ser Arg Asn Cys Gln Asp Gln Thr Phe Cys Gly Thr Gly  
195 200 205

Pro Val Ser Glu Pro Glu Thr Lys Ala Val Ala Ser Phe Ile Glu Ser  
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Lys Lys Asp Asp Ile Leu Cys Phe Leu Thr Met His Ser Tyr Gly Gln  
225 230 235 240

Leu Ile Leu Thr Pro Tyr Gly Tyr Thr Lys Asn Lys Ser Ser Asn His  
245 250 255

Pro Glu Met Ile Gln Val Gly Gln Lys Ala Ala Asn Ala Leu Lys Ala  
260 265 270

Lys Tyr Gly Thr Asn Tyr Arg Val Gly Ser Ser Ala Asp Ile Leu Tyr  
275 280 285

Ala Ser Ser Gly Ser Ser Arg Asp Trp Ala Arg Asp Ile Gly Ile Pro  
290 295 300

Phe Ser Tyr Thr Phe Glu Leu Arg Asp Ser Gly Thr Tyr Gly Phe Val  
Page 4

305

310

315

320

Leu Pro Glu Ala Gln Ile Gln Pro Thr Cys Glu Glu Thr Met Glu Ala  
 325 330

Val Leu Ser Val Leu Asp Asp Val Tyr Ala Lys His Trp His Ser Asp  
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Hys-28

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Thr Asp Arg Leu Trp Arg Lys Ser Arg  
35 40

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Thr His Pro Ile Tyr Tyr Leu Lys Ile  
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Hys-28

<211> 27  
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<400> 13

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## Hys-28

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&lt;400&gt; 18

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 35 40 45  
 Glu Val Val Thr Gln His Phe Leu Gly Val Thr Tyr Glu Thr His Pro  
 50 55 60  
 Ile Tyr Tyr Leu Lys Ile Ser Gln Pro Ser Gly Asn Pro Lys Lys Ile  
 65 70 75 80  
 Ile Trp Met Asp Cys Gly Ile His Ala Arg Glu Trp Ile Ala Pro Ala  
 85 90 95  
 Phe Cys Gln Trp Phe Val Lys Glu Ile Leu Gln Asn His Lys Asp Asn  
 100 105 110  
 Ser Arg Ile Arg Lys Leu Leu Arg Asn Leu Asp Phe Tyr Val Leu Pro  
 115 120 125  
 Val Leu Asn Ile Asp Gly Tyr Ile Tyr Thr Trp Thr Thr Asp Arg Leu  
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 Trp Arg Lys Ser Arg Ser Pro His Asn Asn Gly Thr Cys Phe Gly Thr  
 145 150 155 160  
 Asp Leu Asn Arg Asn Phe Asn Ala Ser Trp Cys Ser Ile Gly Ala Ser  
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 Pro Glu Thr Lys Ala Val Ala Ser Phe Ile Glu Ser Lys Lys Asp Asp  
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 Pro Tyr Gly Tyr Thr Lys Asn Lys Ser Ser Asn His Pro Glu Met Ile  
 225 230 235 240  
 Gln Val Gly Gln Lys Ala Ala Asn Ala Leu Lys Ala Lys Tyr Gly Thr  
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 Asn Tyr Arg Val Gly Ser Ser Ala Asp Ile Leu Tyr Ala Ser Ser Gly  
 260 265 270  
 Ser Ser Arg Asp Trp Ala Arg Asp Ile Gly Ile Pro Phe Ser Tyr Thr  
 275 280 285  
 Phe Glu Leu Arg Asp Ser Gly Thr Tyr Gly Phe Val Leu Pro Glu Ala  
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 Gln Ile Gln Pro Thr Cys Glu Glu Thr Met Glu Ala Val Leu Ser Val  
 305 310 315 320  
 Leu Asp Asp Val Tyr Ala Lys His Trp His Ser Asp Ser Ala Gly Arg  
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Hys-28

Leu Leu

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 35 40 45  
 Pro Ala Phe Cys Gln Trp Phe Val Lys Glu Ile Leu Gln Asn His Lys  
 50 55 60  
 Asp Asn Ser Arg Ile Arg Lys Leu Leu Met Asn Leu Asp Phe Tyr Val  
 65 70 75 80  
 Leu Pro Val Leu Asn Ile Asp Gly Tyr Ile Tyr Thr Trp Thr Thr Asp  
 85 90 95  
 Arg Leu Trp Arg Lys Ser Arg Ser Pro His Asn Asn Gly Thr Cys Phe  
 100 105 110  
 Gly Thr Asp Leu Asn Arg Asn Phe Asn Ala Ser Trp Cys Ser Ile Gly  
 115 120 125  
 Ala Ser Arg Asn Cys Gln Asp Gln Thr Phe Cys Gly Thr Gly Pro Val  
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 Asp Asp Phe Cys Ala  
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 20 25 30  
 Tyr Asn Tyr Glu Lys Tyr Asn Ser Trp Glu Lys Ile Asp Ala Trp Thr  
 35 40 45  
 Ala Asp Ile Ala Asn Glu Asn Pro Ser Leu Val Ser Arg Leu Gln Ile  
 50 55 60  
 Gly Thr Thr Phe Glu Gly Arg Pro Met Pro Leu Leu Lys Val Gly Lys  
 65 70 75 80  
 Pro Gly Val Asn Lys Lys Ala Ile Phe Ile Asp Cys Gly Phe His Ala  
 85 90 95  
 Arg Glu Trp Ile Ser Pro Ala Phe Cys Gln Trp Phe Val Arg Glu Ala  
 Page 9

## Hys-28

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 115 120 125  
 Leu Asp Phe Tyr Ile Leu Pro Val Leu Asn Ile Asp Gly Tyr Val Tyr  
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 Ser Trp Lys Gln Ser Arg Met Trp Arg Lys Thr Arg Ser Val Asn Ala  
 145 150 155 160  
 Gly Ser Thr Cys Ile Gly Thr Asp Pro Asn Arg Asn Phe Asp Ala Ala  
 165 170 175  
 Trp Cys Ser Val Gly Ala Ser Arg Asn Pro Cys Ser Glu Thr Tyr Cys  
 180 185 190  
 Gly Ser Lys Pro Glu Ser Glu Lys Glu Thr Lys Ala Leu Ala Asp Phe  
 195 200 205  
 Ile Arg Arg Asn Arg Ser Ile Ile Gln Ala Tyr Leu Thr Ile His Ser  
 210 215 220  
 Tyr Ser Gln Met Leu Leu Tyr Pro Tyr Ser Tyr Thr Tyr Asp Leu Thr  
 225 230 235 240  
 Ser Asn Asn Lys Lys Leu Asn Ser Ile Ala Lys Glu Ala Ile Arg Glu  
 245 250 255  
 Leu Lys Val Leu Phe Gly Thr Glu Tyr Thr Tyr Gly Pro Gly Ala Ala  
 260 265 270  
 Thr Ile Tyr Pro Ala Ala Gly Gly Ser Asp Asp Trp Ala Tyr Asp Gln  
 275 280 285  
 Gly Ile Lys Tyr Ala Phe Thr Phe Glu Leu Arg Asp Lys Gly Arg Tyr  
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 35 40 45  
 Ala Gly Gln Asn Lys Pro Ala Ile Phe Met Asp Cys Gly Phe His Ala  
 50 55 60  
 Arg Glu Trp Ile Ser Pro Ala Phe Cys Gln Trp Phe Val Arg Glu Ala  
 65 70 75 80  
 Val Arg Thr Tyr Gly Arg Glu Ile Gln Val Thr Glu Leu Leu Asp Lys  
 85 90 95  
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